



ITEM	PART	PART NO.	QTY
1	DIFFERENTIAL HOUSING	DWG 001610-X	1
2	SPIDER PIN	DWG 001611-0	4
3	ROLLER THRUST BEARING	BERG BR5-2	4
4	SPIDER GEAR	DWG 001612-0	4
5	SPIDER RETAINING RING	BERG Q1-31	4
6	BEVEL GEAR	DWG 001613-0	2
7	BEVEL GEAR BEARING	OEM S2936MCZZ-LG134	2
8	CAPTURE RING	DWG 001614-0	2
9	JEFF TUBE SUBASSEMBLY	DWG 001700-0	1
10	SOCKET HEAD SCREW #2-56 x .25	-	16
11	#8-32 SHOULDER SCREW	BERG BZ-9	8
12	INSTRUMENTED JEFF TUBE SUBASSEMBLY	DWG 001701-0	1
13	POTENTIOMETER PINION	BERG P64A10-88	1
14	POTENTIOMETER	BI 6173R50KL.5	1

6	TORQUE CAPTURE RING MOUNTING SCREWS (ITEM 10) TO 1-2 IN-LBS
5	TORQUE SHOULDER SCREWS (ITEM 11) TO 20-30 IN-LBS.
4	PLACE CAPTURE RING OVER JEFF TUBE PRIOR TO ASSEMBLING ITEMS 6, 7, 11, AND 9 (12) AS A UNIT. INSERT THIS UNIT INTO BEARING BORE OF HOUSING AFTER TIGHTENING SHOULDER SCREWS.
3	ASSEMBLE SPIDER GEARS BY PLACING ONE THRUST WASHER OF THRUST ROLLER BEARING AGAINST ALUMINUM SURFACE OF HOUSING. USE SPIDER GEAR AS OTHER THRUST SURFACE. INSTALL RETAINING RING.
2	PRIOR TO INITIAL ASSEMBLY, ADHESIVELY BOND POTENTIOMETER TO HOUSING USING CYANOACRYLATE APPLIED TO OUTERMOST FLANGE SURFACE OF POTENTIOMETER.
1	PRIOR TO INITIAL ASSEMBLY, PRESS FIT SPIDER PINS INTO PLACE UNTIL HEAD OF PIN IS FLUSH WITH OUTER SURFACE OF HOUSING

NOTES

JET PROPULSION LABORATORY

CALIFORNIA INSTITUTE OF TECHNOLOGY
PASADENA, CALIFORNIA

DRAWING TITLE:

EXPLODED ASSEMBLY DIFFERENTIAL

PROJECT: ET ROVER

DWG NO.: 001600-0

DRAWN: TONY GANINO
393-1363

DATE: 8/3/98

REV: A

SCALE: None

MATERIAL: N/A

QUANTITY: 1

DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE SPECIFIED

TOLERANCES:

FRACTIONS	DECIMALS	ANGLES
1/32	.XX = 0.015 .XXX = 0.005 .XXXX = 0.001	0.1°